

STA - 3200

Synchronous thermal analyzer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Synchronous thermal analyzer combines thermogravimetric analyzer TGA with differential thermal analyzer DTA or differential scanning calorimeter DSC. The same sample can be used to obtain the information of TGA and DTA or DSC in the same measurement.

Measure and study the following characteristics of materials:

DSC: melting, crystallization, phase change, reaction temperature and reaction heat, combustion heat, specific heat...

TGA: thermal stability, decomposition, redox, adsorption and desorption, free water and crystal water content, calculation of component ratio, etc

Features :

1. The furnace body is heated by double-row winding of precious metal nickel-cadmium alloy wire, which reduces interference and is more resistant to high temperatures. Advanced control system. The temperature can be controlled quickly and stably.
2. The tray sensor is made of precious metal nickel-cadmium alloy, which has the advantages of high temperature resistance, oxidation resistance, and corrosion resistance.
3. The power supply and circulating heat dissipation part are separated from the main machine to reduce the influence of heat and vibration on the micro-thermal balance.
4. Adopt top-opening structure, easy to operate. It is difficult to move the furnace body up to place the sample, and it is easy to damage the sample rod.
5. The host adopts a water area constant temperature device to isolate the thermal influence of the heating furnace body on the chassis and the micro-thermal balance.
6. Automatically generate and print test reports. The software has built-in test records, data processing and report formats, and automatically issues test reports.
7. The furnace body can be replaced according to customer requirements

Controller software advantages:

1. Using imported 32bit ARM processor Cortex-M3 core, sampling speed and processing speed are faster.
2. 24bit four-channel sampling AD collects DSC signal, TG signal and temperature T signal
3. The power supply and water circulation part are individually controlled by 8bit single-chip microcomputer to separate the host and the cooling part without interfering with each other, but the two are closely connected, and the cooling part is controlled by the host.
4. The USB two-way communication is adopted between the software and the instrument, which fully realizes remote operation. The parameter setting of the instrument and the operation stop of the instrument can be carried out through the computer software.
5. 7 inch full color 24bit touch screen, better man-machine interface. TG calibration can be achieved on the touch screen.

Technical parameters:

Temperature range	Room temperature~1250°C
Temperature resolution	0.01°C
Temperature fluctuation	±0.1°C
Heating rate	0.1~100°C/min
Cooling rate	1~20°C/min
Temperature control method	heating, constant temperature, cooling

Measuring range of balance	1mg~2g
Cooling time	15min (1000°C...100°C)
Resolution	0.01μg
DSC range	0~±500mW
DSC resolution	0.01mW
Constant temperature time	0~300min arbitrarily set
Display mod	character large-screen LCD display
Atmosphere	inert, oxidizing, reducing, static, dynamic
Atmosphere device	Built-in gas flow meter, including two-way gas switching and flow rate control
Software	Intelligent software can automatically record the TG curve for data processing and print experimental report
Data interface	Standard USB interface, special software (free software upgrades from time to time)
Power supply	AC220V 50Hz

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

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HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
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